

CLAIMS

1. A method of communication comprising:

communicating at least one physical layer frame formed by dynamically varying an aggregate packet size in response to a condition of a channel for communicating at least one of voice and data.

2. The method of Claim 1, wherein the step of communicating comprises at least one of transmitting the at least one physical layer frame and receiving the at least one physical layer frame.

3. The method of Claim 2, wherein the step of dynamically varying an aggregate packet size comprises modifying a number of content frames to form the at least one physical layer frame, each content frame comprises at least one of a voice frame and a data frame.

4. The method of Claim 3, comprising at least one of:

receiving a signal comprising information corresponding with the channel condition; and

transmitting the signal comprising the information corresponding with the channel condition.

5. The method of Claim 3, wherein the step of communicating is performed over at least one of an uplink.

6. The method of Claim 3, wherein the at least one physical layer frame corresponds with a payload having at least two content frames and at least one IP header.

7. A method of communication comprising:

communicating at least one flag, if switching between at least one active period and at least one inactive period, in a physical layer frame formed by aggregating a number of content frames, each content frame comprising at least one of a voice frame and a data frame.

8. The method of Claim 7, wherein the step of communicating at least one flag comprises at least one of transmitting the flag and receiving the flag.

9. The method of Claim 7, comprising:

communicating at least one initiation signal corresponding with an onset of the at least one active period; and

communicating at least one scheduling grant in response to the communicated initiation signal.

10. The method of Claim 9, wherein the step of communicating at least one initiation signal comprises at least one of transmitting the initiation signal and receiving the initiation signal.

11. The method of Claim 9, wherein the step of communicating at least one scheduling grant comprises at least one of transmitting the scheduling grant and receiving the scheduling grant.

12. The method of Claim 8, wherein the flag indicates an end to the active period and a beginning of the inactive period.

13. The method of Claim 12, wherein the active period corresponds with communicating over an uplink.

14. The method of Claim 8, wherein the one physical layer frame corresponds with a payload having at least two content frames and at least one IP header, and the at least one IP header comprises the at least one flag.

5 15. The method of Claim 14, wherein each physical layer frame is formed by dynamically varying an aggregate packet size of the aggregation of content frames in response to a condition of a channel.

16. A method of communication comprising:

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communicating at least one physical layer frame formed by varying an aggregate packet size if switching between at least one active period and at least one inactive period.

17. The method of Claim 16, wherein the step of communicating comprises at least one of
15 transmitting the at least one physical layer frame and receiving the at least one physical layer frame.

18. The method of Claim 17, wherein the step of varying an aggregate packet size comprises modifying a number of content frames to form the at least one physical layer frame, each content
20 frame comprising at least one of a voice frame and a data frame.

19. The method of Claim 18, wherein the step of switching between at least one active period and at least one inactive period corresponds with switching from about an offset of the at least one inactive period to about an onset of the at least one active period.

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20. The method of Claim 19, comprising:

communicating at least one initiation signal corresponding with the onset of the at least one active period; and

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communicating at least one scheduling grant in response to the communicated initiation signal.

21. The method of Claim 20, wherein the step of communicating at least one initiation signal comprises at least one of transmitting the initiation signal and receiving the initiation signal.

22. The method of Claim 20, wherein the step of communicating at least one scheduling grant comprises at least one of transmitting the scheduling grant and receiving the scheduling grant.

23. The method of Claim 20, wherein the communicated physical layer frame at the onset of the at least one active period is formed in response to the communicated at least one scheduling grant.

24. The method of Claim 23, wherein the communicated physical layer frame at the onset comprises fewer content frames relative to the number of content frames for the communicated physical layer frame after the onset.

25. The method of Claim 24, wherein the active period corresponds with communicating over an uplink.

26. A method of communication comprising:

communicating a plurality of physical layer frames, each physical layer frame formed by varying a packet aggregation duration in which a number of content frames are aggregated in an active period, each content frame comprising at least one of a voice frame and a data frame.

27. The method of Claim 26, comprising:

modifying an arrival time of each physical layer frame by the varying of the packet aggregation duration.

28. The method of Claim 27, wherein at least three of the physical layer frames communicated in the packet aggregation duration of an active period are spaced apart in about equal periodic intervals.

5 29. The method of Claim 27, wherein the step of communicating comprises at least one of transmitting at least one of the plurality of physical layer frames and receiving at least one of the plurality of physical layer frames.

30. The method of Claim 27, wherein the active period corresponds with communicating
10 over at least one of an uplink and a downlink.

31. The method of Claim 27, wherein the at least one physical layer frame corresponds with a payload having at least two content frames and at least one IP header.